

FILE
IN 02097
P. 2
W. W. W.
ILLEGIB

ILLEGIB

May 24 1967

TO G-55

FROM G-2

STAT SUBJECT: [] eyepieces versus [] Instruments

STAT

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In reference to letter from []
Dtd. May 18th with attached Dwgs. MOK 17-00000 and MOK 11-00000.

Having attempted to interpret the marked drawings tolerances and assuming that the diameters of the [] eyepiece tube is 23.20 MM plus .02 MM minus .05MM; the following facts present themselves in decimal terms in comparison with standard [] eyepiece diameters.

STAT

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STAT [] eyepiece .91138 ~~+0.0018~~ ~~-0.0019~~ diameter.

.91338 $\pm .00078$
 $\pm .0017$

[] eyepiece .9145 $\pm .000$
 $\pm .001$ diameter.

Maximum and minimum diameters:

STAT [] eyepiece .91416 in. max.
.91148 in. min.
[] eyepiece .9145 in. max.
.9135 in. min.

STAT The [] instruments are bored to accept the eyepieces with a standard diameter of .916 $\pm .001$, $\pm .000$ inches.

STAT [] eyepieces could fit [] instruments $\frac{.916}{.91418}$ loose to $\frac{.917}{.91148}$ loose.

STAT [] eyepieces are $\frac{.916}{.9145}$ loose to $\frac{.917}{.9135}$ loose.

The maximum loose tolerances for [] instruments was standardized to conform with the results of an extensive [] study to establish an eyepiece to eyepiece tube maximum tolerance that would not impair the optical quality of an instrument designed for stereoscopic viewing.

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STAT In view of the fact that the apparent minimum clearance of the [] eyepiece when used in a [] instrument is .0018 inches, it might be advisable to suggest that Wild eyepieces with maximum size tube diameters be selected for use in [] instruments to assure best performance.

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NGA Review Complete

STAT

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May 18, 1967

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Dear Bob:

We are attaching copies of drawings MOK11 and MOK17 which we believe will give you all the data requested in your letter of May 15th.

Incidentally, the 6X is a Compensating Eyepiece and not a  Field Eyepiece.

You will note that the drawings lack data on the lens elements similar to the type drawing you would send me under like circumstances.

Very truly yours,



Executive Vice President

KER/cn
enc

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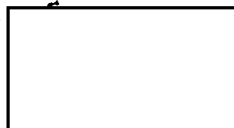
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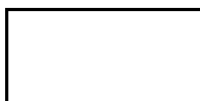
EYE PIECE .9145^{±.000} - .001

.9145⁻
.9135⁻

.916	.712
<u>.9145⁻</u>	<u>.9135⁻</u>
.0015 ⁻	.0025 ⁻

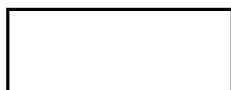
Loose .916^{±.001} - .000

STAT



.0015 to .0025⁻ loose

STAT

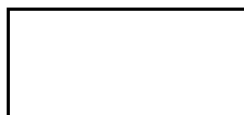


EYE PIECE

.91416⁻
.91148⁻

.916	.912
<u>.91416⁻</u>	<u>.91148⁻</u>
.00184	.00352

STAT



.00184 to .00352⁻ loose